

Title (en)
WIDE-ANGLE RUGATE POLARIZING BEAMSPLITTER

Title (de)
WEITWINKEL POLARISATIONSTRAHLTEILER MIT BRECHZAHLMODULIERTER (RUGATE) TEILERSCHICHT

Title (fr)
SEPARATEUR DE FAISCEAU POLARISANT A ONDULATIONS ET GRAND ANGLE

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Application
EP 01973481 A 20010920

Priority
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• US 67079900 A 20000927

Abstract (en)
[origin: WO0227385A2] A polarizing beamsplitter includes an optical medium and a rugate filter embedded therein. The rugate filter has an average refractive index which varies with position on the rugate plane in the non-thickness direction, where the averaging is across the rugate film in the thickness direction. The variation in the rugate's average index compensates for variations in incident angle across a cone of a divergent light beam. In one embodiment, the period of the rugate is substantially constant across its surface. Most preferably, the amplitude of the rugate index variation has an apodizing amplitude envelope superimposed thereon to aid in coupling the rugate to a surrounding optical medium.

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G02B 27/126 (2013.01 - EP US); **G02B 27/142** (2013.01 - EP US)

Citation (search report)
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